# This Page Is Inserted by IFW Operations and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

## IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.

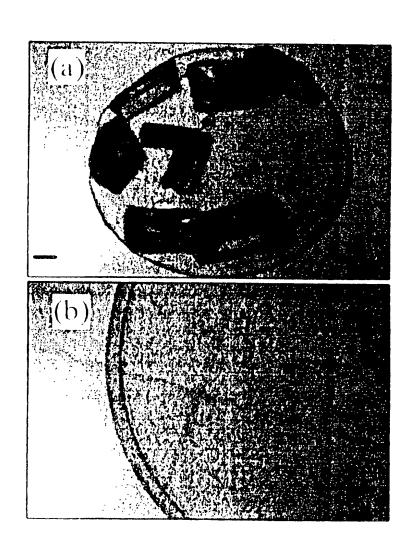


FIG. 1

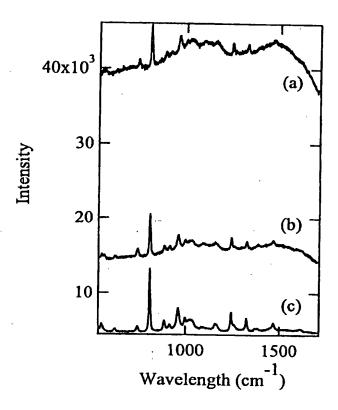


FIG. 2

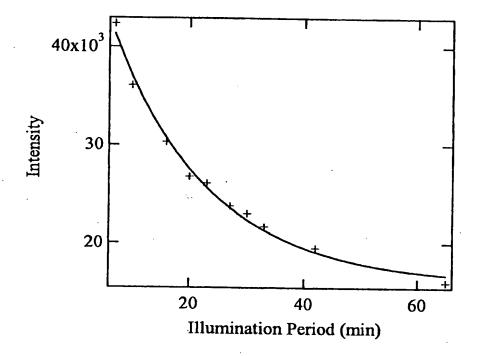


FIG. 3

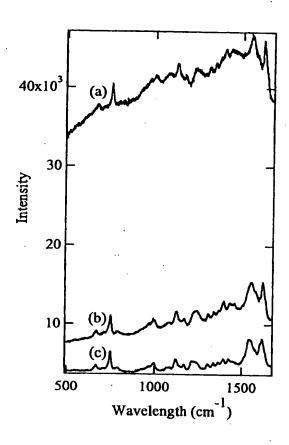


FIG. 4

FIG. 5A

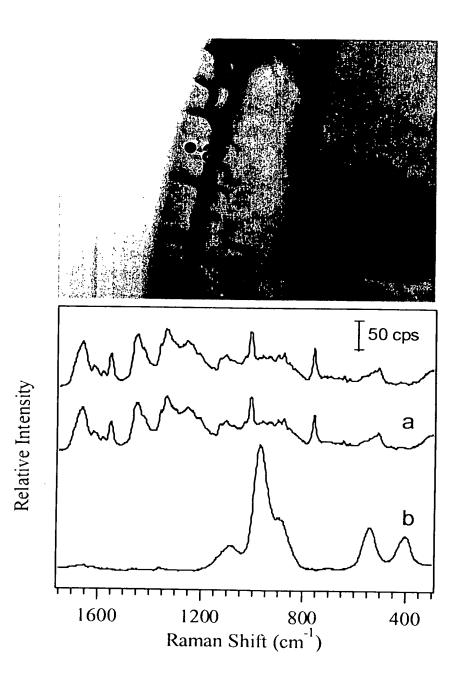


FIG. 5B

FIG. 6A

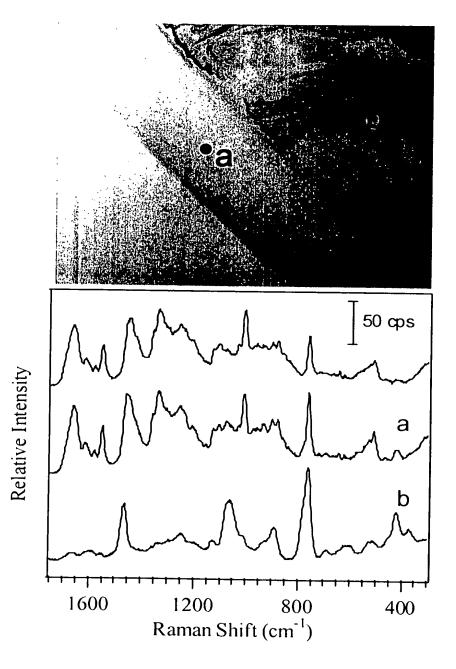


FIG. 6B

FIG. 7A

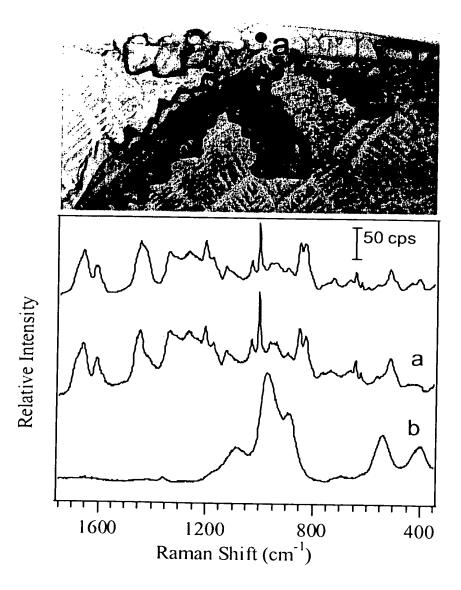


FIG. 7B

FIG. 8A

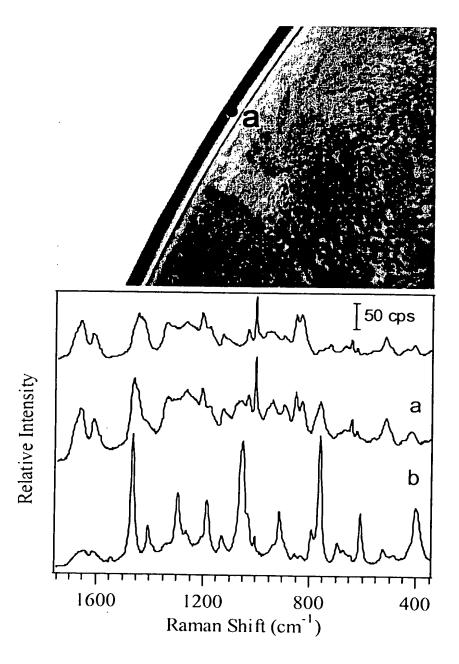


FIG. 8B

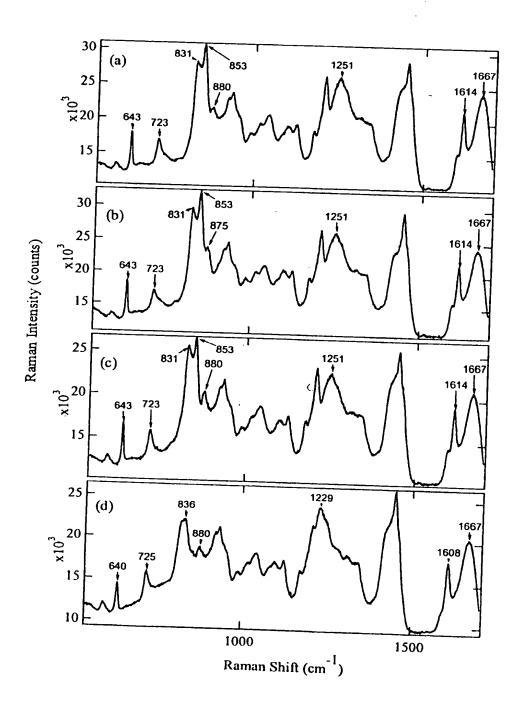


FIG. 9

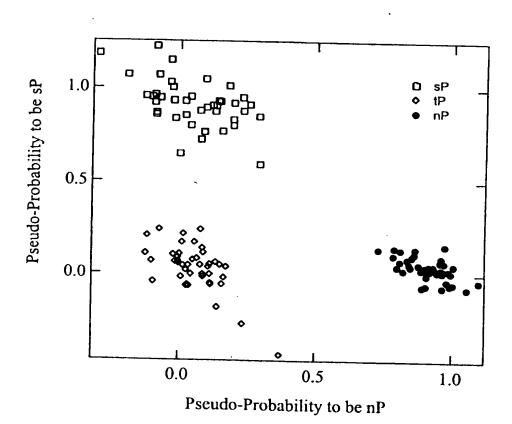


FIG. 10

#### FIG. 11A

1 MGSNKSKPKD ASQRRRSLEP AENVHGAGGG AFPASQTPSK PASADGHRGP SAAFAPAAAE
61 PKLPGGPNSS DTVTSPQRAG PLAGGVTTPV ALYDYESRTE TDLSPKKGER LQIVNNTEGD
121 WWLAHSLSTG QTGYIPSNYV APSDSIQAEE WYFGKITRRE SERLLLNABN PRGTFLVRES
181 ETTKGAYCLS VSDPDNAKGL NVKHYKIRKL DSGGPYITSR TQPNSLQQLV AYYSKHADGL
241 CHRLTTVCPT SKPQTQGLAK DAWEIPRESL RLEVKLGQGC FGEVWMGTWN GTTRVAIKTL
301 KPGTMSPEAF LQEAQVMKKL RHEKLVQLYA VVSBEPIYIV TEYMSKGSLL DPLKGETGKY
361 LRLPQLVDMA AQIASGMAYV ERMNYVHRDL RAANILVGEN LVCKVADFGL ARLIEDNBYT
421 ARQGAKFPIK WTAPEAALYG RPTIKSDVWS FGILLTELTT KGRVPYPGMV NREVLDQVER
481 GYRMPCPPEC PESLHDLMCQ CWRKEPEERP TPEYLQAFLE DYFTSTEPQY QPGENL

#### FIG. 11B

- (1) Src Y-216[210-220]: LDSGGFYITSR Src pY216[210-220]: LDSGGF(pY)ITSR
- (2) Src Y-419[413-422]: LIEDNEYTAR Src pY419[413-422]: LIEDNE(pY)TAR
- (3) Src Y-530[505-536]: EPEERPTFEYLQAFLEDYFTSTEPQYQPGENL Src pY-530[505-536]: EPEERPTFEYLQAFLEDYFTSTEPQ(pY)QPGENL
- (4) Src Y-530[524-536]: TSTEPQYQPGENL

Src pY-530[524-536]: TSTEPQ(pY)QPGENL

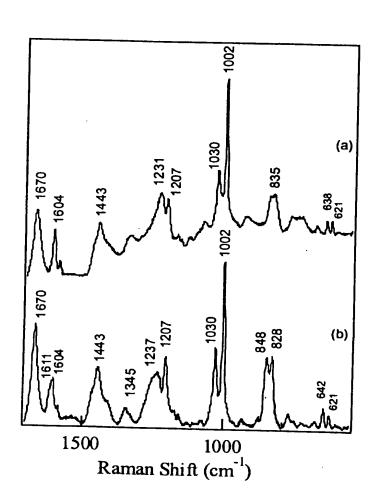


FIG. 12

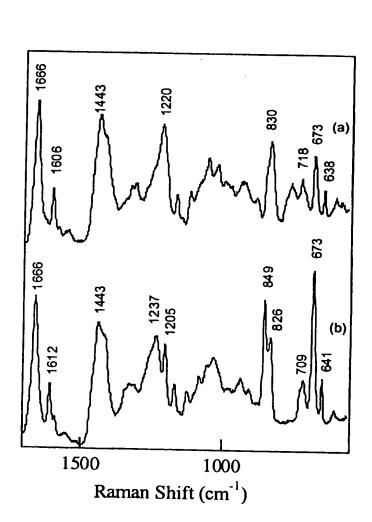


FIG. 13

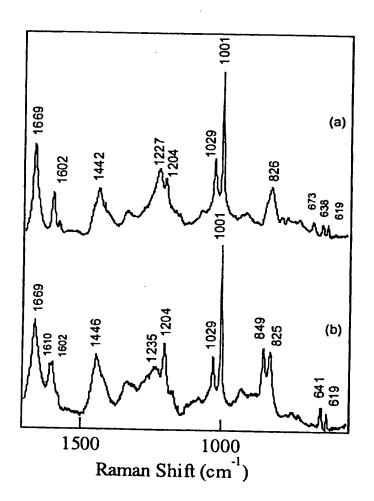


FIG. 14

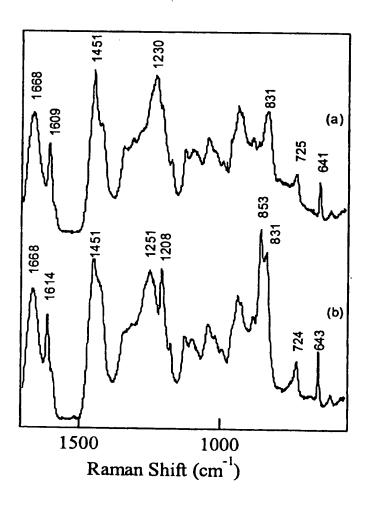


FIG. 15

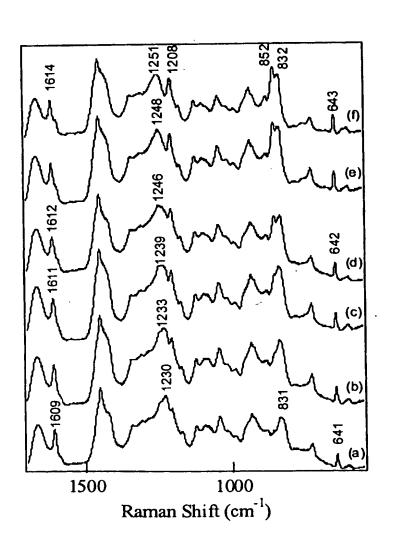


FIG. 16

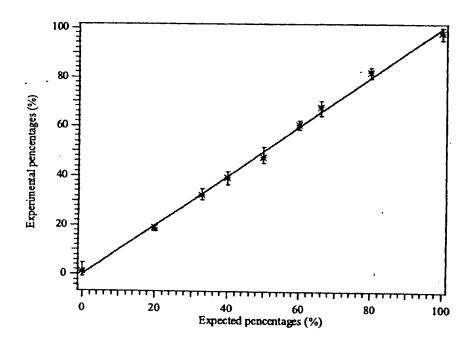


FIG. 17

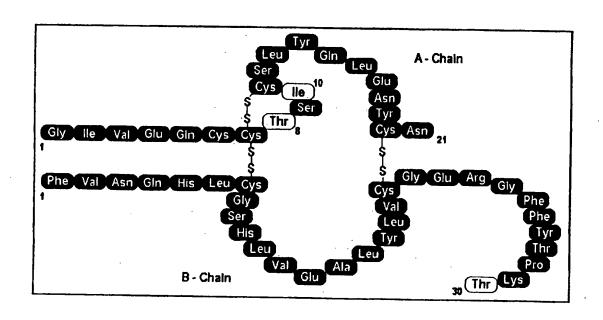


FIG. 18

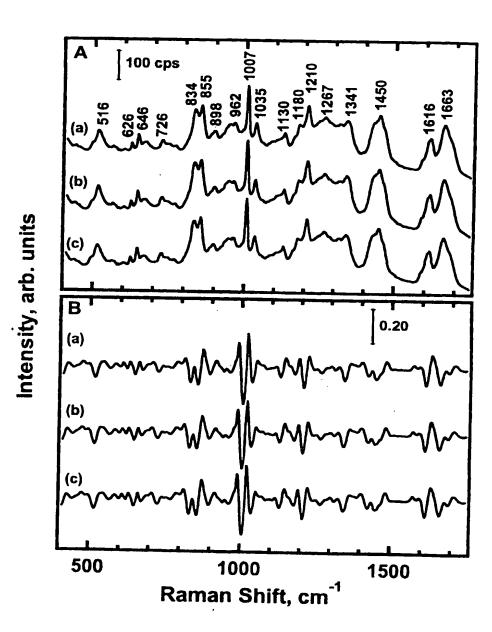


FIG. 19

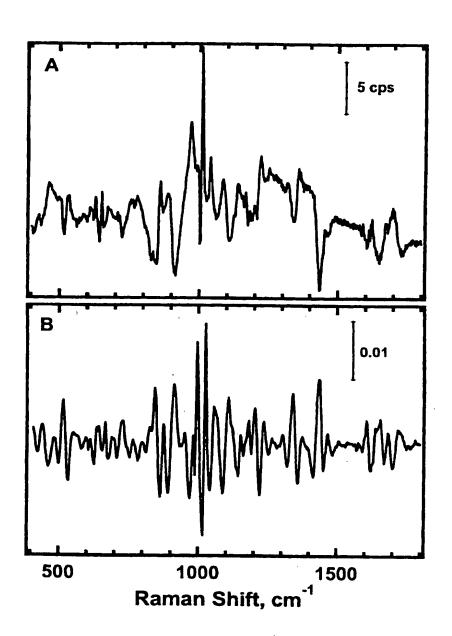


FIG. 20

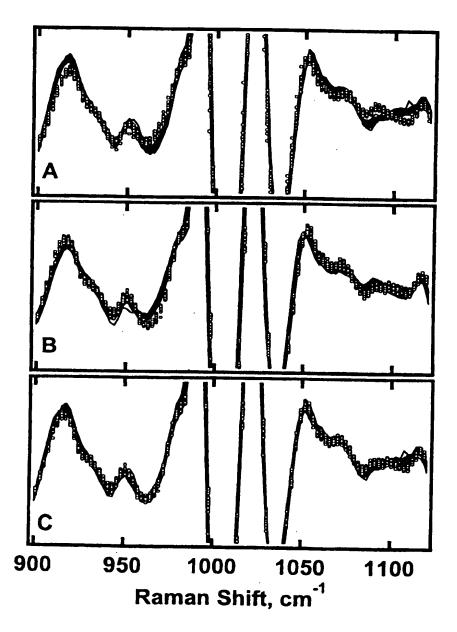


FIG. 21

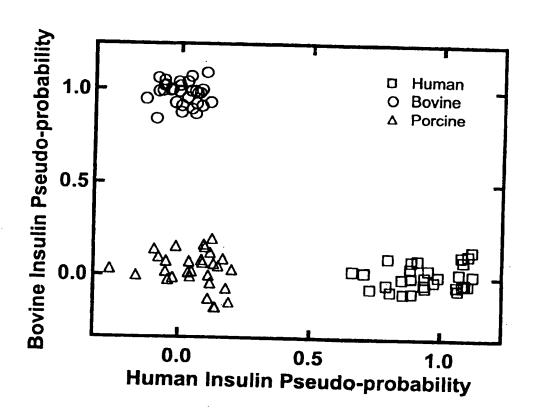


FIG. 22

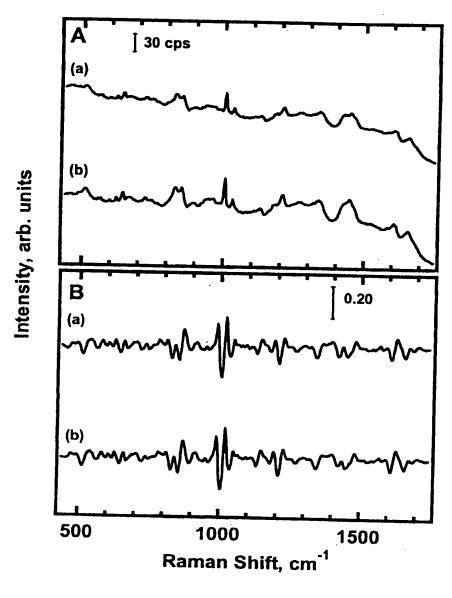


FIG. 23

20×10<sup>3</sup>

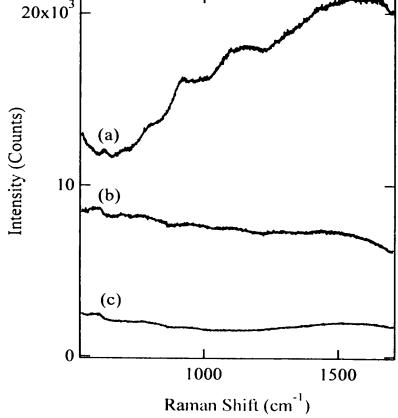


FIG. 24

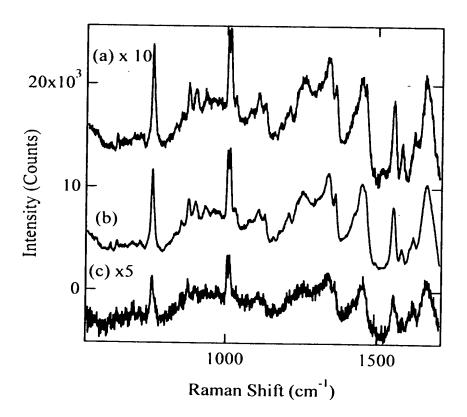
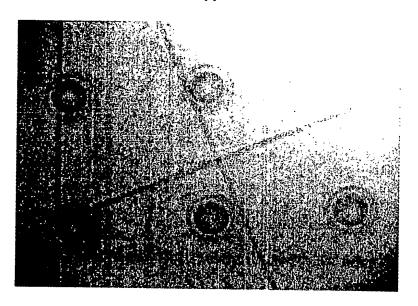
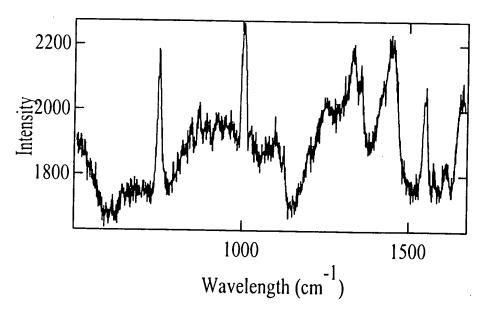
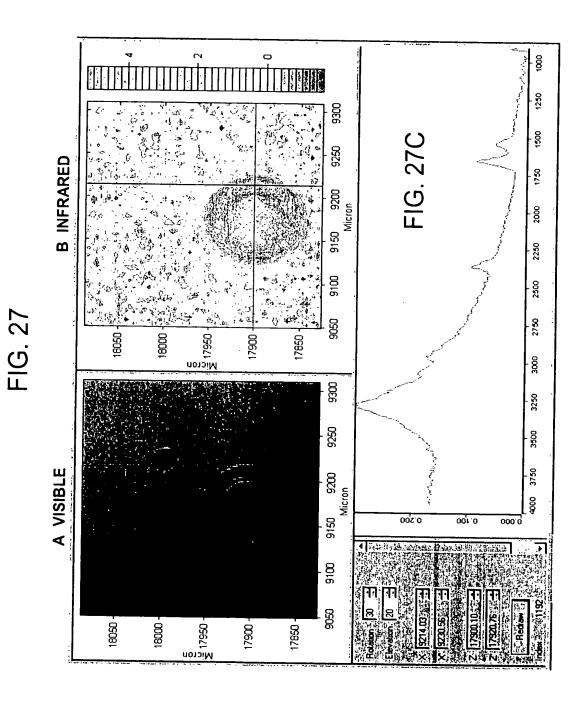


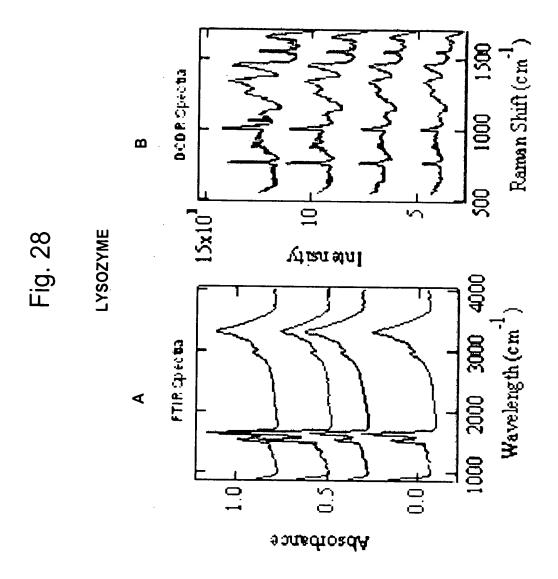
FIG. 25

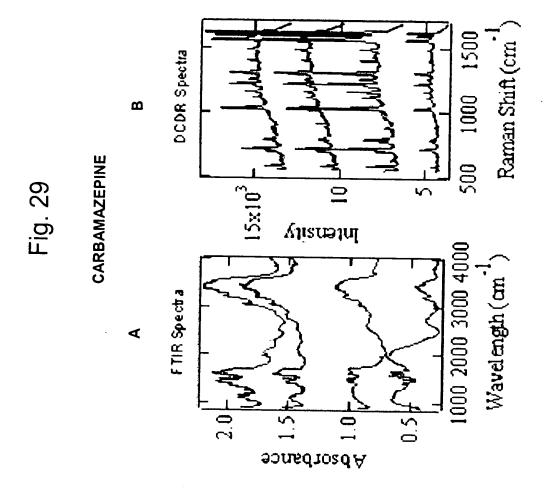
FIG. 26











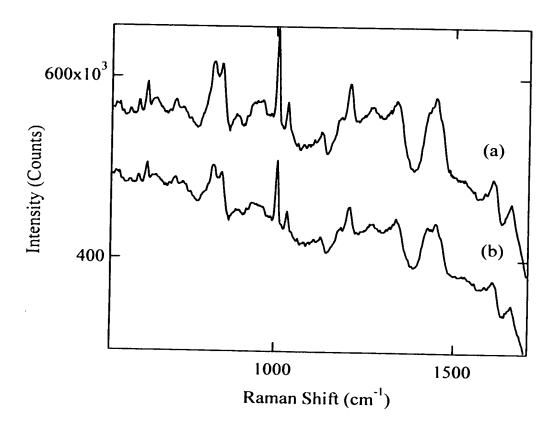


FIG. 30

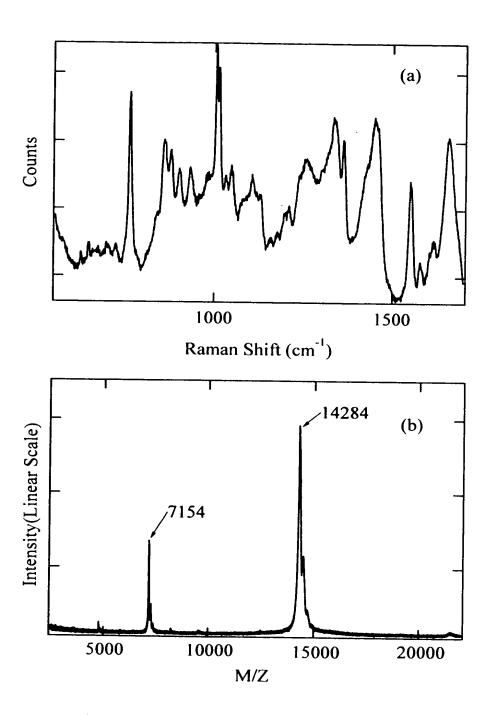


FIG. 31

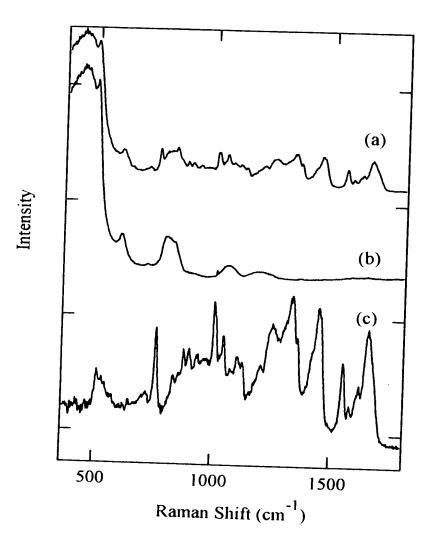


FIG. 32